

PUBLICATIONS OF DR. R.S. JANGID

(a) PEER-REVIEWED JOURNALS

1. Shiv Prakash and R.S. Jangid, “Application of supplementary inerter-based damping devices alongside unbonded fiber-reinforced elastomeric isolators”, *International Journal of Structural Stability and Dynamics*, published online on August 27, 2024. <https://doi.org/10.1142/S0219455425502232>
2. R.S. Jangid, “Response of structures with clutching inertial system under near-fault motions”, *Journal of Structural Design and Construction Practice*, ASCE, 2025 (Accepted for publication).
3. R.S. Jangid, “Seismic analysis and performance of semi-active spring for base-isolated structures”, *Journal of Low Frequency Noise, Vibration and Active Control*, Vol. 44 (1), pp. 497–511, 2025. <https://doi.org/10.1177/14613484241290564>
4. R.S. Jangid, “Resilient base-isolated structures using bio-inspired supplementary devices”, *Structures*, Vol. 71, Art. 108099, 2025. <https://doi.org/10.1016/j.istruc.2024.108099>
5. V.A. Salunkhe, R.S. Jangid, and Rajiv Ranjan, “Potentiality of using seismic motion incoherency in analyzing base isolated reactor building of Indian nuclear power plant: A case study”, *Nuclear Engineering and Design*, Vol. 432, Art. 113829, 2025. <https://doi.org/10.1016/j.nucengdes.2025.113829>
6. Shiv Prakash and R.S. Jangid, “Unbonded fiber-reinforced elastomeric isolators for isolating masonry buildings”, *Practice Periodical on Structural Design and Construction*, ASCE, Vol. 29 (2), Art. 04023070, 2024. <https://doi.org/10.1061/PPSCFX.SCENG-1413>
7. Shiv Prakash and R.S. Jangid, “Multihazard response of unbonded fiber-reinforced elastomeric isolator-isolated structures”, *Proceedings of the Institution of Civil Engineers: Structures and Buildings*, Vol. 177 (2), pp. 81-98, 2024. <https://doi.org/10.1680/jstbu.22.00170>
8. Naqeeb Ul Islam and R.S. Jangid, “Seismic control and performance assessment of isolated bridges using integration of negative stiffness and inerter-based supplemental control devices”, *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering*, Vol. 10(4), Art. 04024067, 2024. <https://doi.org/10.1061/AJRUA6.RUENG-1360>
9. K.N. Bajad and R.S. Jangid, “Performance assessment of lead rubber–isolated liquid storage tanks with clutching inertial systems”, *ASCE-ASME Journal of Risk and*

- Uncertainty in Engineering Systems, Part A: Civil Engineering*, Vol. 10(4), Art. 04024065, 2024. <https://doi.org/10.1061/AJRUA6.RUENG-1355>
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 11. Avinash Kumar and R.S. Jangid, “Experimental and analytical study of shear strengthening of deep RC beams using externally bonded CFRP system”, *Innovative Infrastructure Solutions*, Vol. 9 (7), Art. 284, 2024. <https://doi.org/10.1007/s41062-024-01615-1>
 12. Avinash Kumar and R.S. Jangid, “Shear strength prediction of CFRP-strengthened deep RC beams without shear reinforcement”, *Journal of Building Pathology and Rehabilitation*, Vol. 9, Art. 82, 2024. <https://doi.org/10.1007/s41024-024-00442-2>
 13. V.B. Patel and R.S. Jangid, “Optimal parameters for tuned mass dampers and examination of equal modal frequency and damping criteria”, *Journal of Vibration Engineering & Technologies*, Vol. 12(5), pp. 7159–7173, 2024. <https://doi.org/10.1007/s42417-024-01351-x>
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 18. R.S. Jangid, “Dynamic response mitigation of adjacent structures using clutched inerter”, *Innovative Infrastructure Solutions*, Vol. 9 (7), Art. 266, 2024. <https://doi.org/10.1007/s41062-024-01527-0>
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